Switching Amplifier MK1-22-R
2 channels

- Dual channel amplifier
- Input circuits according to EN 50227 (NAMUR)
- Galvanic isolation between input circuit and output circuit
- The 230 VAC device provides additional galvanic isolation from power supply
- 2 relay outputs, each with one SPDT contact
- Selectable NO/NC output function

The switching amplifiers type MK1-22-R are dual channel devices with input circuits according to EN 50227 (NAMUR). They can be used in conjunction with sensors conforming to EN 50227 (NAMUR), variable resistors or potential-free contacts.

Connecting the sensors according to possibility (I) of the block diagram, selects the normally open (NO) output mode. If connected according to possibility (II), the normally closed (NC) output function is selected.

A green LED on the front indicates power "on" separately for each channel. The yellow LED indicates the output switching status.
## Switching Amplifiers

<table>
<thead>
<tr>
<th>Type</th>
<th>MK1-22-R/230VAC</th>
<th>MK1-22-R/24VUC</th>
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<tbody>
<tr>
<td>Ident-No.</td>
<td>75 400 20</td>
<td>75 400 27</td>
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</table>

### Supply Voltage $U_B$
- Line frequency/ripple $W_{PP}$
  - $U_B:$ 196...253 VAC
  - $W_{PP}:$ 48...62 Hz
- Power/current consumption
  - Between input circuit, output circuit and supply voltage for 250 $V_{rms}$
  - Test voltage: 4 kV $V_{rms}$

### Input Circuits
- According to EN 50227 (NAMUR)
- Voltage: 8 V
- Current: 8 mA
- Switching threshold: 1.55 mA
- Hysteresis: typ. 0.2 mA

### Output Circuits
- 2 relay outputs (SPDT)
- Switching voltage: $\leq$ 250 VAC/120 VDC
- Switching current per output: $\leq$ 2 A
- Switching capacity per output: $\leq$ 500 VA/60 W
- Switching frequency: $\leq$ 10 Hz
- Contact material: silver-alloy + 3 µm Au

### LED Indications
- Status indication: yellow
- Power "ON": green

### Terminal Housing
- 16-pole, 36 mm wide, Polycarbonate/ABS, flammability class V-0 per UL 94
- Mounting: snap-on clamps for top-hat rail (DIN 50022) or screw terminals for panel mounting
- Connection: via flat terminals with self-lifting pressure plates
- Connection profile: $\leq$ 2 x 2.5 mm² or 2 x 1.5 mm² with wire sleeves
- Degree of protection (IEC 60529/EN 60529): IP20
- Operating temperature: -25...+60 °C